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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	AT	TORNEY DOCKET NO.
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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	Application No.	Applicant(s) SHANBROM
Office Action Summary	Everyner	Group Art Unit
	examiner PHAN	1 1724
-The MAILING DATE of this communication appear	s on the cover sheet b	eneath the correspondence address
Period for Response	3	
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SI MAILING DATE OF THIS COMMUNICATION.	ET TO EXPIRE	MONTH(S) FROM THE
 Extensions of time may be available under the provisions of 37 CFR 1. from the mailing date of this communication. If the period for response specified above is less than thirty (30) days, If NO period for response is specified above, such period shall, by defa Failure to respond within the set or extended period for response will, to 	a response within the statuto tult, expire SIX (6) MONTHS	ory minimum of thirty (30) days will be considered timely. S from the mailing date of this communication.
Status		
☐ Responsive to communication(s) filed on		
☐ This action is FINAL.		
 Since this application is in condition for allowance except accordance with the practice under Ex parte Quayle, 1935 		
Disposition of Claims		
Claim(s) 1-20	is/are pending in the application.	
Of the above claim(s)	is/are withdrawn from consideration.	
☐ Claim(s)	is/are allowed.	
X Claim(s) \-20	is/are rejected.	
☐ Claim(s)	is/are objected to.	
☐ Claim(s)————————————————————————————————————		
Application Papers		requirement.
See the attached Notice of Draftsperson's Patent Drawing	Review, PTO-948.	
☐ The proposed drawing correction, filed on	• •	☐ disapproved.
☐ The drawing(s) filed on is/are object	ed to by the Examiner.	
☐ The specification is objected to by the Examiner.		
☐ The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. § 119 (a)-(d)		
 □ Acknowledgment is made of a claim for foreign priority und □ All □ Some* □ None of the CERTIFIED copies of the received. □ received in Application No. (Series Code/Serial Number □ received in this national stage application from the Interest 	ne priority documents ha	ave been
*Certified copies not received:		•
Attachment(s)		
☐ Information Disclosure Statement(s), PTO-1449, Paper No.	nterview Summary, PTO-413	
Notice of References Cited, PTO-892		Notice of Informal Patent Application, PTO-152
Notice of Draftsperson's Patent Drawing Review, PTO-948	Other	
Notice of Draftsperson's Patent Drawing Review, PTO-948		

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Specification

1. The abstract of the disclosure is objected to because legal phraseology "comprises" is used in the abstract. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-8 and 9-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weinberg (5,814,135; 14 in Figs. 2 & 3; col. 4, lines 40-47), in view of Holter et al (5,015,451; Abstract; col. 2, line 64 through col. 3, line 8) and Scheinberg (3,693,327; col. 2, lines 47-49; col. 6, lines 28-33).

Weinberg discloses a disinfecting air filter comprising on an inlet side an iodinating layer wherein the filter material is impregnated with elemental iodine, and on the outlet side a porous polyvinyl acetal polymer to bind the iodine vapor passing

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through. Weinberg further discloses the filter assembly can have a multiple filter media including a HEPA filter for capturing particulate. Weinberg also shows that the iodine-binding material is selected from the group consisting of polyvinyl acetal polymer. Claims 1-8 and 9-20 differ from the disclosure of Weinberg in that the filter assembly has an iodine capture layer comprising a humidifying agent and a visual indicator of iodine saturation. Holter et al disclose a filter treated with a humidifying agent which is propylene glycol for eliminating Scheinberg discloses a filter having a visual indicator odors. of the saturation of its ability to function so that the filter medium can be visually detected and replaced upon saturation. would have been obvious to one skilled in the art at the time the invention was made to modify the disinfecting air filter of Weinberg with humidifying agent such as propylene glycol as taught by Holter et al in combination with a visual indicator of the saturation as taught by Scheinberg in order to provide an improved air filter which optimizes air discharge purification, maximizes killing of pathogens and microorganisms, and is low cost in manufacturing.

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Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Weinberg (5,667,564) discloses a portable air purifier for destruction of airborne microbes and chemical toxins.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau Pham whose telephone number is (703) 308-1605. The examiner can normally be reached on Monday-Thursday from 7:15 a.m. to 5:45 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Jay Woo, can be reached on (703) 308-3793. The fax phone number for this Group is (703) 305-7718 or (703) 305-3601.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Jay H. Woo Supervisory Patent Examiner Technology Center 1700

December 9, 1998